

**ABSTRACT OF THE DISCLOSURE**

Apparatus and method for electrically heating a segment of a subsea pipeline are provided. The annulus between the pipes electrically isolates the pipes, but at the ends of the segment the concentric pipes are electrically connected. The inner pipe may be thermally insulated. Electrically insulating water stops are provided to act as flood control barriers in the event the outer pipe is breached. Collars on seals around the water stops may help avoid electrical shorts and packets of super-absorbent may be in place to further reduce the risk of electrical faults.